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## **CLAIMS**

## What is claimed is:

- 1. A nail polish composition comprising:
  - a. a mixture of chemicals designed to form a coating for a human nail;
  - b. a colorant;
  - c. a temperature sensitive colorant; and
  - d. a UV photochromic powder; said colorant, temperature sensitive colorant and UV photochromic powder imparting, after said nail polish composition is applied to a human nail and allowed to dry, a first color when said human nail is at normal body temperature, a second color when the temperature of said human nail is above normal body temperature, and a third color when said nail polish composition is exposed to UV radiation.
- 2. A nail polish composition comprising:
  - a. a film forming chemical;
  - b. a plasticizer;
  - c. a solvent;
  - d. a colorant;
  - e. a temperature sensitive colorant;
  - f. a UV absorber;
  - g. an additive;
  - h. a viscosity adjuster; and
- i. a UV photochromic powder; said colorant, temperature sensitive colorant and UV photochromic powder imparting, after said nail polish

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composition is applied to a human nail and allowed to dry, a first color when said human nail is at normal body temperature, a second color when the temperature of said human nail is above normal body temperature, and a third color when said nail polish composition is exposed to UV radiation.

- 3. A composition as claimed in claim 2 in which said film forming chemical is selected from the group consisting of nitrocellulose, hydroxyethyl acrylate, butyl acrylate, n-methoxyethyl acrylate, and their mixtures.
- 4. A composition as claimed in claim 2 in which said plasticizer is selected from the group consisting of sucrose acetate isobutyrate, dibutyl phthalate, DL-camphor, acrylic resin, petroleum resin and their mixtures.
- 5. A composition as claimed in claim 2 in which said solvent is selected from the group consisting of ethyl acetate, butyl acetate, isopropanol, aromatic solvent and their mixtures.
- 6. A composition as claimed in claim 2 in which said colorant is selected from the group consisting of yellow no.4, titanium dioxide, guanine, bismuth oxychloride, mica, aluminum powder, iron blue, black oxide of iron, red #6, red #7, red oxide of iron, and their mixtures.
- 7. A composition as claimed in claim 2 in which said temperature sensitive colorant is selected from the group consisting of brilliant rose, brilliant green, brown, fast black, fast blue, gold orange, magenta, yellow, pink, turquoise blue, vermillion, Chromicolor Gravure Ink NC Base, and their mixtures.
- 8. A composition as claimed in claim 2 in which said UV absorber is benzophenone.

- 9. A composition as clamed in claim 2 in which said additive is citric acid.
- 10. A composition as claimed in claim 2 in which said viscosity adjuster is benzyldimethlsterylarnmonirn hectorite
- 11. A composition as claimed in claim 2 in which said UV photochromic powder is selected from the group consisting of red, purple, yellow, blue, and their mixtures.
- 12. A nail polish composition comprising:

	21.00-38.00	% by weight	Ethyl Acetate
	16.00-24.00	% by weight	Butyl Acetate
	6.00-10.00	% by weight	Nitrocellulose
5	1.00-7.00	% by weight	Sucrose Acetate Isobutyrate
	1.00-4.00	% by weight	Isopropanol
			Hydroxyethyl Acrylate - Butyl Acrylate -
	1.00-3.00	% by weight	N-methoxyethyl Acrylate Copolymer Solution
	1.00-3.00	% by weight	Dibutyl Phthalate
	1.00-2.00	% by weight	Benzyldimethlsterylarnmonirn Hectorite
10	0.25-1.00	% by weight	DL-Camphor
	0.00-0.50	% by weight	Bismuth Oxychloride
	0.00-2.50	% by weight	Yellow No.4 Colorant
	0.00-3.00	% by weight	Titanium Dioxide
	0.10-1.00	% by weight	Benzophenone
15	0.00-3.00	% by weight	Iron Blue Colorant
	0.10-2.00	% by weight	Citric Acid
	0.00-2.00	% by weight	Black Oxide Iron Colorant
	0.00-1.00	% by weight	Red#6 Colorant
	0.00-3.00	% by weight	Red#7 Colorant
20	0.00-5.00	% by weight	Mica
	0.00-1.00	% by weight	Aluminum Powder
	0.00-0.50	% by weight	Red Oxide of Iron Colorant
	0.00-2.00	% by weight	Brilliant Rose Temperature Sensitive Colorant
	0.00-2.00	% by weight	Brilliant Green Temperature Sensitive Colorant

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25	0.00-1.00	% by weight	Brown Temperature Sensitive Colorant
	0.00-0.50	% by weight	Fast Black Temperature Sensitive Colorant
	0.00-5.00	% by weight	Fast Blue Temperature Sensitive Colorant
	0.00-2.00	% by weight	Gold Orange Temperature Sensitive Colorant
	0.00-8.00	% by weight	Magenta Temperature Sensitive Colorant
30	0.00-5.00	% by weight	Yellow Temperature Sensitive Colorant
	0.00-3.00	% by weight	Pink Temperature Sensitive Colorant
	0.00-3.50	% by weight	Turquoise Blue Temperature Sensitive Colorant
	0.00-0.50	% by weight	Vermillion Temperature Sensitive Colorant
	0.25-4.00	% by weight	Acrylic Resin
35	0.25-3.00	% by weight	Petroleum Resin
	0.25-3.00	% by weight	Aromatic Solvent
	0.00-3.00	% by weight	Red UV Photochromic Powder
	0.00-0.60	% by weight	Purple Photochromic Powder
	0.00-0.50	% by weight	Blue Photochromic Powder
40	0.00-1.00	% by weight	Yellow Photochromic Powder
	0.00-0.50	% by weight	Guanine
: :	0.00-2.00	% by weight	Chromicolor

- 13. A method of fabricating a nail polish composition comprising the step of mixing together a film forming chemical, a plasticizer, a solvent, a colorant, a temperature sensitive colorant, a UV absorber, an additive, a viscosity adjuster, and a UV photochromic powder; said colorant, temperature sensitive colorant and UV photochromic powder imparting, after said nail polish composition is applied to a human nail and allowed to dry, a first color when said human nail is at normal body temperature, a second color when the temperature of said human nail is above normal body temperature, and a third color when said nail polish composition is exposed to UV radiation.
- 14. A composition as claimed in claim 13 in which said film forming chemical is selected from the group consisting of nitrocellulose, hydroxyethyl acrylate, butyl acrylate, n-methoxyethyl acrylate, and their mixtures.

- 15. A composition as claimed in claim 13 in which said plasticizer is selected from the group consisting of sucrose acetate isobutyrate, dibutyl phthalate, DL-camphor, acrylic resin, petroleum resin and their mixtures.
- 16. A composition as claimed in claim 13 in which said solvent is selected from the group consisting of ethyl acetate, butyl acetate, isopropanol, aromatic solvent and their mixtures.
- 17. A composition as claimed in claim 13 in which said colorant is selected from the group consisting of yellow no.4, titanium dioxide, guanine, bismuth oxychloride, mica, aluminum powder, iron blue, black oxide of iron, red #6, red #7, red oxide of iron, and their mixtures.
- 18. A composition as claimed in claim 13 in which said temperature sensitive colorant is selected from the group consisting of brilliant rose, brilliant green, brown, fast black, fast blue, gold orange, magenta, yellow, pink, turquoise blue, vermillion, Chromicolor Gravure Ink NC Base, and their mixtures.
- 19. A composition as claimed in claim 13 in which said UV absorber is benzophenone.
- 20. A composition as clamed in claim 13 in which said additive is citric acid.
- 21. A composition as claimed in claim 13 in which said viscosity adjuster is benzyldimethlsterylarnmonirn hectorite
- 22. A composition as claimed in claim 13 in which said UV photochromic powder is selected from the group consisting of red, purple, yellow, blue, and their mixtures.